

**INTERNATIONAL SEARCH REPORT**

International application No. PCT/IB03/02037
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**A. CLASSIFICATION OF SUBJECT MATTER**

IPC 7 B23D 49/00 B27B 19/02

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B23D B27B B28D 1/05

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Chinese Invention 1985-2003, Chinese Utility Models 1985-2003

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPI EPODOC CNPAT PAJ: 滑块 凸起 弧面 slide block protrusion projection

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DE,U,2 0013789((CHEN-I) CHEN M) 11. Jan 2001(11.01.01) see the whole document	1
A	DE,A,3702670((LICN ) LICENTIA PATENT-VERW GMBH)11.Aug 1988(11.08.88) see the whole document	1
A	JP,A,2001353619((MAKI-N) MAKITA CORP) 25.Dec 2001(25.12.01) see the whole document	1
A	UK,A,2048420((COAL ) COAL IND PATENTS LTD)10. Dec 1980(10.12.80) see the whole document	1

Further documents are listed in the continuation of Box C.  See patent family annex.

\* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim (S) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search  
02. Feb 2004(02.02.04)

Date of mailing of the international search report

01 · APR 2004 (01 · 04 · 2004)

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**INTERNATIONAL SEARCH REPORT**  
Information on patent family members

International application No.  
PCT/IB03/02037

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
DE20013789	11-01-01	None	
DE3702670	11-08-88	None	
JP2001353619	25-12-01	None	
UK2048420	10-12-80	None	